

An apparatus and system for providing wireless access to packet data networks and value-added services is disclosed. The wireless access integrated node (WAIN) offers a simplified internal architecture which eliminates unnecessary intermediate protocols contained in a multi-node hierarchical network architecture while still supporting the main functions of standard mobile networks and preserving standard external interfaces. The WAIN is essentially an integrated network element that provides local radio coverage and complements the capability of the public wireless network. The WAIN can automatically configure itself to minimize interference and achieve optimal performance.